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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,607	07/17/2007	Sergej Lopatin	LOPA3010/FJD	3404
BACON & THOMAS, PLLC 625 SLATERS LANE			EXAMINER	
			GORDON, BRYAN P	
FOURTH FLO ALEXANDRIA	or a, VA 22314-1176		ART UNIT	PAPER NUMBER
			2834	
			MAIL DATE	DELIVERY MODE
			10/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/591,607	LOPATIN, SERGEJ				
Office Action Summary	Examiner	Art Unit				
	BRYAN P. GORDON	2834				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>25 Ju</u>	lv 2008.					
	action is non-final.					
·=		secution as to the merits is				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologod in addordance with the practice and c	x parte gaayle, 1000 G.B. 11, 10	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>8 and 10-14</u> is/are pending in the appl	ication.					
4a) Of the above claim(s) <u>9</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>8 and 10-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
· ·						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the c	• • •	, ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite				

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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 8 and 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brutschin (PG Pub 20030159506).
- 5. Considering claim 8, Brutschin (Figures 1 + 2a) teaches a membrane (5) an oscillatable unit (2) secured to said membrane; a sending/receiving unit (6), which excites said oscillatatable unit to oscillate and which receives oscillations of said oscillatable unit; a control/evaluation unit (10), which, on the basis of the oscillations of said oscillatable unit, monitors and/or determines the process variable, wherein; said sending/receiving unit comprises a disk-shaped, piezoelectric element (15); and said disk-shaped, piezoelectric element has two

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segments, which are essentially polarized oppositely to one another (paragraph 0044).

- 6. Brutchin discloses the claimed invention except for exactly two electrodes of opposite polarity are applied to the side of said disk-shape, piezoelectric element facing away from said membrane. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have exactly two electrodes of opposite polarity, since it has been held that omission of an element and its function in a combination where the remaining elements perform the same function as before involves only routine skill in the art.
- 7. Considering claim 10, Brutschin teaches the claimed invention as described above in claim 8.
- 8. Considering claim 11, Brutschin teaches the claimed invention as described above in claim 8.
- 9. Considering claim 12, Brutschin teaches the claimed invention as described above in claim 8.
- 10. Considering claim 13, Brutschin teaches the said membrane at least partially with a conductive coating (paragraph 0043).
- 11. Considering claim 14, Brutschin teaches the side facing said membrane is connected electrically conductively with ground (paragraph 0039).

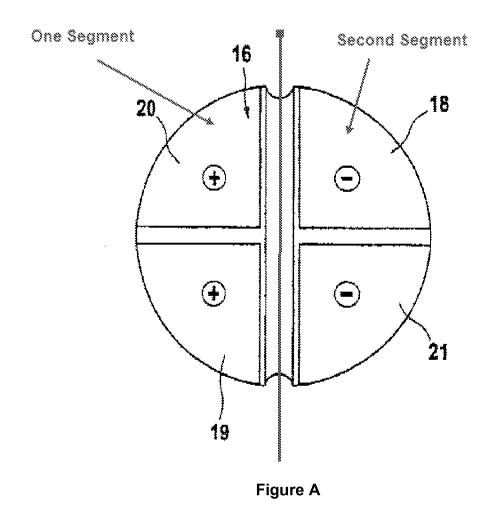
Response to Arguments

12. Applicant's arguments filed 25 July 2008 have been fully considered but they are not persuasive. Regarding the Brutschin not having exactly two electrodes of opposite polarity that issued is address above. In regarding to

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whether Brutschin is homogeneously polarized the applicant never claims whether their invention is polarized in a different manner other than homogeneously. Therefore, that point is moot.



Regarding the argument that Brutschin does not teach two different segments as shown from Figure A above is does teach two segments as described by the applicant as " the disk-shaped piezoelectric element has at least two segments, which are polarized essentially oppositely to one another".

Therefore, that point is also moot.

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Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 14. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRYAN P. GORDON whose telephone number is (571)272-5394. The examiner can normally be reached on Monday-Thursday 8:00-5:30, Friday 7:30-4:00.
- 16. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quyen Leung can be reached on 571-272-8188. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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17. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen P Leung/ Supervisory Patent Examiner, Art Unit 2834

/B. P. G./ Examiner, Art Unit 2834 /Bryan P Gordon/ Examiner, Art Unit 2834